PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing See form PCT/ISA/210 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION **DPPC 138.818** See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. 16.01.2004 PCT/EP2005/000554 17.01.2005 International Patent Classification (IPC) or both national classification and IPC G02B6/42, G02B6/00 Applicant ICOS VISION SYSTEMS N.V. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/EP Authorized officer

Telephone No

Facsimile No.

International application No.
PCT/EP2005/000554

Box No. I Basis of this opinion					
 With regard to the language, this opinion has been established on the basis of the international application in filed, unless otherwise indicated under this item. 	the language in which it was				
This opinion has been established on the basis of a translation from the original language into the follow	ring language				
, which is the language of a translation furnished for the purposes	of international search (under				
Rule 12.3 and 23.1(b)).					
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application a invention, this opinion has been established on the basis of: 	nd necessary to the claimed				
a. type of material					
a sequence listing	:				
table(s) related to the sequence listing					
b. format of material					
in written format					
in computer readable form					
c. time of filing/furnishing					
contained in the international application as filed.	•				
filed together with the international application in computer readable form.					
furnished subsequently to this Authority for the purposes of search.					
 In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. Additional comments: 					
4. Additional comments:					
,					
	·				
•					

International application No.
PCT/EP2005/000554

			٦
Box	No. II Priority	•	4
1.	The following document has not yet been furnished:		
	copy of the earlier application whose priority has been claimed (Rule 43bis.1	and 66.7(a)).	
	translation of the earlier application whose priority has been claimed (Rule 4)	3bis.1 and 66.7(b)).	
	Consequently it has not been possible to consider the validity of the priority claim. the assumption that the relevant date in the claimed priority date.	This opinion has nevertheless been established or	
2.	This opinion has been established as if no priority had been claimed due to the (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international relevant date.		
3.	Additional observations, if necessary:		
	The validity of the priority claim has not been	considered because	
	the International Searching Authority does not 1	have in its	
	possession a copy of the earlier application who	ose priority has been	
	claimed or, where required, a translation of the	at earlier	
	application. This opinion has nevertheless been	established on the	
	assumption that the relevant date (Rules $43bis1$	and 64.1) is the	
	claimed priority date.		
i			
		•	
	•	•	
		ı	
	•	•	

International application No.
PCT/EP2005/000554

Вох	No. V	Reasoned statement under I citations and explanations s	tule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; apporting such statement		
1.	Statemen	ıt			
	Nove	lty (N) Claims	1-13	YES	
		Claims		NO	
	Inventive step (IS)		1-13	YES	
	Indus	trial applicability (IA) Claims	1-13	YES	
2.	Citations	and explanations:			
	1. Reference is made to the following document:				
			311 (NOURI <i>ET AL.</i>) 7 May 1991		
	2.	Document D1 is	considered the prior art closest to		
		the subject mat	ter of claim 1. It discloses (the		
		references betw	een parentheses relate to said		
		document):			
	2.1 An illumination unit having				
	- a light source (28),				
	- first optics (90) for focussing the light emitted				
	by the light source (28) (column 6, line 68 - column				
		7, line 1),			
		- a light measu	rement head (16) for illuminating an		
	object with a predefined brightness value,				
	ű.	- an optical wa	veguide (91) for transmitting the		
		emitted and foo	cussed light to the light measurement		
		head (16),			
		- a displacemen	t unit (92) for varying the axial		
		distance from t	he first optics to the optical		
		waveguide,			
		wherein the int	ensity of the light input in the		
		optical wavegui	de can be varied by axially		

International application No.
PCT/EP2005/000554

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

displacing the first optics (column 7, lines 5-10).

2.2 The subject matter of claim 1 differs therefore from the known illumination unit in that the light source is a high-power light source, in that the high-power light source is coupled to the first optics, and in that the cross-sectional area of the focus is at least twice as large as the cross-sectional area of the optical waveguide at the light inlet side.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

Nevertheless, the use and focussing of a high-power light source are known and obvious to a person skilled in the art (D1, high-power light source 230). Furthermore, the coupling of the light source to the first optics has no major effect in terms of the invention.

- 2.3 The problem addressed by the present invention can therefore be considered that the illumination is more homogeneous (description page 2, lines 34-35).
- 2.4 The solution proposed to this problem in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons:

No document in the prior art shows a focus whose cross-sectional area is at least twice as large as the cross-sectional area of the optical waveguide inlet. This solves said problem. Furthermore, this exact value is not obvious to a person skilled in

International application No.
PCT/EP2005/000554

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the art.

3. The subject matter of claim 10 is novel and inventive for the same reasons.

4. Claims 2-9 are dependent on claim 1 and thus likewise meet the PCT requirements for novelty and inventive step.

5. Claims 11-13 are dependent on claim 10 and thus likewise meet the PCT requirements for novelty and inventive step.